MOTOROLA

Instruction Manual Revision

1. GENERAL

This revision details changes that have taken place since the printing of your manual. Use this information to update your manual.
The following document refers to non-Motorola products which may be used for loading a system image onto a model F5203 or F5205 MW520. References to non-Motorola products or services are provided "as is" (for information purposes only) and do not constitute an endorsement or a recommendation. All non-Motorola trademarks, brands, and names mentioned below are the property of their respective owners.

2. MANUAL AFFECTED

98-08901C31-A, Mobile Workstation 520 Model F5203/F5205 Application Developer's Guide.

3. REVISION DETAILS

3.1 INTRODUCTION

This documentation details how to load a new system image on a Model F5203 and F5205 MW520. The system image can be loaded using the Parallel Port and a USB Floppy, or USB DVD ROM. The method used to load the system image is left to the individual administrator. The following sections will describe how to use each one of these methods.

NOTE: The recommended imaging method is the USB DVD ROM method. (Due to simplicity and image dump time)

3.2 MATERIALS AND SOFTWARE NEEDED

Once a preferred method for re-loading the system image has been selected, the appropriate materials, as described below, should be gathered.

3.2.1 Materials for Parallel Port Method

- A host PC (Pentium 166MHz or above) with a parallel port and a Microsoft Windows 9x system.

- A USB floppy drive (Y-E DATA USB Floppy - Motorola Part# DSDPNUSB001)
- A bootable floppy
- A standard parallel crossover cable (male - male)
- Version 6.01 of the Ghost application - available from Symantec Corporation. (This should be installed on the host PC and on the bootable media.)
- A copy of the PREGHOST utility. (This is available in the recovery CD or from Motorola at FTP://MW520.MOT.COM). This should be installed on the bootable media.
- A copy of the image to be downloaded onto the MW520 unit. (This should be on the host PC.)

3.2.2 Materials for USB DVD-ROM Method

- A USB DVD ROM. (Amacom USB DVD-ROM Motorola Part # DSBYDVD524USB) or (Addonics USB DVD-ROM Manufacturer Product # AD-285 Model AEPDVD8X24UM)
- An "MW520 Software Recovery" CD. This CD ships with each F5203/F5205.
- MW520 BIOS Version 6.0.4.065 (or later). Section 5.2 contains instructions on how to check an MW520's BIOS version.

3.3 IMAGE INSTALLATION VIA PARALLEL PORT

NOTE: When installing an MW520 unit system image via a parallel crossover cable and the parallel port, it is very important that the MW520 unit be configured as MASTER.

NOTE: The MW-520 unit parallel port is by default configured for ECP. Make sure that both the Host PC parallel port and the MW-520 unit parallel port are both configured for ECP or EPP.

As noted above, a bootable media is required. This media should be a bootable floppy and the Y-E DATA USB Floppy drive.

3.3.1 Floppy Preparation Procedure

Copy Ghost.exe and Preghost.com onto the bootable floppy.

3.3.2 Image Installation Procedure For Parallel Port Method

Step 1. Ensure that the host PC (with Microsoft Windows 9x) has the GHOST.EXE program and the MW520 unit system image (*.img or *.gho) file.

Step 2. Before powering-on the MW520 unit, connect the MW520 unit to the Microsoft Windows 9x host via the parallel crossover cable.

Step 3. Power-on the MW520 unit and enter the BIOS Setup by pressing the F2 key when the Motorola logo is displayed.

Step 4. Open the POWER menu item and set the Power Saving setting to Disabled.

Step 5. Press the F10 key and select Yes to confirm changes.

Step 6. Before the MW520 unit is restarted connect the USB floppy drive (with the bootable floppy inserted).

Step 7. Execute the PREGHOST.EXE utility on the MW520 unit from the DOS prompt. Wait until it is completed.

Step 8. Launch the Ghost application on the MW520 unit. Choose LPT -> Master.

Step 9. Launch the Ghost application on the host PC. Choose LPT -> Slave.

Step 10. Wait until the connection is established (one second).

Step 11. Choose Local -> Disk -> From Image

Step 12. Choose the image file you need.

Step 13. Press OK to the target drive, OK to size, and then Yes to proceed.

Step 14. After the image is loaded, restart the computer.

Step 15. Open Bios Setup (by pressing the F2 key when the Motorola Logo is displayed).

Step 16. Press the F9 key (Setup defaults) and confirm changes (by selecting the Yes item).

Step 17. Press the F10 key and confirm changes (by selecting the Yes item).

Step 18. Restart your system.

3.3.3 Image Installation Procedure For USB DVD-ROM

NOTE: Check to make sure that the MW520 is equipped with BIOS version 6.0.4.065 or later. This can be done by pressing the "ESC" when the blue Motorola logo is displayed when the MW520 is first powered on. The BIOS version will be displayed in the upper left hand corner of the screen. If the BIOS is older than 6.0.4.065, please go to Section 6 for instructions on how to upgrade the BIOS.

Step 1. Power-on the MW520 unit and enter the BIOS Setup by pressing the F2 key when the Motorola logo is displayed.

Step 2. Open the POWER menu item and set the Power Saving setting to Disabled.

Step 3. Open the BOOT menu item and go to Boot Device Priority.

Step 4. Select CD-ROM Drive. Next press "Shift" and "+" twice. The Boot Device Priority should now read in the following order starting from top to bottom (PC Card ATA, CD-ROM Drive, SRAM card-USB Floppy, Hard Drive)

Step 5. Plug the USB-DVD drive into the MW520 and insert the MW520 recovery CD.

Step 6. Press F10 save configuration and exit.

Step 7. Follow the on screen directions.

3.4 BIOS 6.0.4.065 Installation.

Step 1. Download BIOS version 6.0.4.065 (or a later-released BIOS file) from the MW520 web site. http://mw520.motorola.com . The BIOS is located under "Support -> Drivers and Updates Download"

Step 2. Create a bootable floppy disk. Extract the BIOS onto that bootable floppy disk.

Step 3. Connect the USB floppy to the MW520. (See Section 4.1 for a listing of an approved USB floppy drive.)

Step 4. Boot the MW520 to DOS by using the USB floppy disk drive and the bootable floppy containing the BIOS.

Step 5. At the DOS prompt type "run.bat". When prompted press any key to continue.

Step 6. When the BIOS update is completed you will be prompted to "Press any key to continue." Remove the bootable floppy drive and press any key.